



April 9, 2012 *Established 1933*  
PETROLEUM DISTRIBUTOR

ORIGINAL



SDMS DocID 2199438

1A. 1225 W Ridge Pike

Conshohocken, PA 19428

1B. Lubricants and heating oil. Never produced only distributed.

2. No products produced, all products purchased and distributed.

3. All raw materials attributed to lubricants and heating oil.

4. No waste or by products generated.

5A. See attached.

5B. See attached.

5C. No waste or by products were created.

6. Refer to MSDS sheets.

7. We have no contracts in existence for Metro Container Corporation.

8. I did not work for Jay Gress, Inc. during 1980-1988 and I have no knowledge of what procedures were used during 1980-1988.

9. Please refer to lubricants MSDS sheet. Drums should have been empty.

10. Lubricants but drums were empty.

11. Robert C. Walker

President

Jay Gress, Inc.

1225 W. Ridge Pike

Conshohocken, PA 19428

610-277-1000



12A. Company policy is seven years from date of occurrence.

12B. Documents are shredded.

12C. 1995

12D. An invoice from Metro Container Corp.

12E. Jay Gress II

13. No information.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Jay Gress Incorporated  
Robert C. Walker, President  
PO Box 628  
Norristown, PA 19404-0628

MAR 9 2012

**Re: Required Submission of Information  
Metro Container Site, Trainer, Pennsylvania**

Dear Mr. Walker:

The U.S. Environmental Protection Agency ("EPA") is seeking information concerning a release, or threat of release, of hazardous substances, pollutants, or contaminants at the Metro Container Corporation Site located in Trainer, Pennsylvania (hereinafter, "the Site").

The Site includes property located at or near 2<sup>nd</sup> and Price Streets in Trainer, Pennsylvania which was used by the Metro Container Corporation and others for drum recycling and reclamation activities through approximately 1990 ("Metro Property") as well as other locations where wastes associated with operations at the Metro Property have come to be located. In the 1980s EPA conducted an investigation at the Metro Property and oversaw performance of a response action which included the removal and off-Site disposal of thousands of drums from the Metro Property. Analyses of samples taken at and near the Metro Property in 2005, 2007, and 2010 reveal the presence of volatile organic compounds ("VOCs"), polychlorinated biphenyl's ("PCBs"), polycyclic aromatic hydrocarbons ("PAHs"), and metals in soils and groundwater.

Based on records available from the operation of the Metro Property, EPA believes that you sent drums to the Site for reconditioning. The purpose of this letter is to obtain certain information from Jay Gress Incorporated (hereinafter "you") in connection with the Site. The specific information required is attached to this letter as Enclosure E.

Pursuant to the authority of Section 104(e) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended ("CERCLA"), 42 U.S.C. § 9604(e), EPA has the authority to require you to furnish all information and documents in your possession, custody or control, or in the possession, custody or control of any of your employees or agents, which concern, refer, or relate to hazardous substances as defined by Section 101(14) of CERCLA, 42 U.S.C. Section 9601(33), which were transported to, stored, treated, or disposed of at the above referenced Site and which concern your ability to pay EPA's costs in cleaning up the Site.

Section 104 of CERCLA authorizes EPA to pursue penalties for failure to comply with that section or for failure to respond adequately to required submissions of information. In addition, providing false, fictitious, or fraudulent statements or representations may subject you to criminal penalties under 18 U.S.C. § 1001. The information you provide may be used by EPA in administrative, civil, or criminal proceedings.

You must respond in writing to this required submission of information within **forty-five (45) calendar days** of your receipt of this letter. The response must be signed by an appropriately authorized corporate official. If, for any reason, you do not provide all information responsive to this letter, then in your answer to EPA you must: (1) describe specifically what was not provided, and (2) provide to EPA an appropriate reason why the information was not provided.

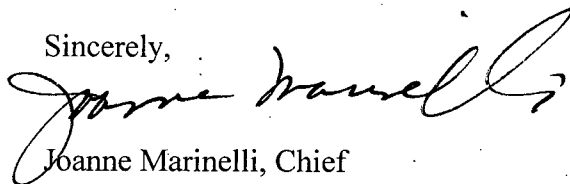
All documents and information should be sent to:

Kenneth I. Rose, III, Financial Analyst (3HS62)  
U.S. Environmental Protection Agency, Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

This required submission of information is not subject to the approval requirements of the Paperwork Reduction Act of 1980, 44 U.S.C. Section 3501, et seq.

If you have any questions concerning this matter, please contact Kenneth I. Rose III at 215-814-3147, or have your attorney contact Senior Assistant Regional Counsel Andrew Goldman at (215) 814-2487.

Sincerely,



Joanne Marinelli, Chief  
Cost Recovery Branch  
Hazardous Site Cleanup Division

- Enclosures: A. Business Confidentiality Claims/Disclosure of Your Response to  
EPA Contractors and Grantees  
B. List of Contractors that May Review Your Response  
C. Definitions  
D. Instructions  
E. Information Requested

cc: Andrew Goldman (3RC41)  
Kenneth I. Rose, III (3HS62)  
PADEP

*Henting oil*

February 2, 2012

Enclosed are Material Safety Data Sheets (MSDSs) for products purchased by your company. The information contained on the MSDS is designed to meet requirements under the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Section 313 of the Emergency Planning and Community Right-to-Know Act (See Section 14 of MSDS).

**Sunoco, Inc. is able to provide electronic copies of our MSDSs to your company. If you would prefer to receive future copies of MSDSs electronically, please provide your email address or fax number in the space provided below.**

If you are not directly responsible for the distribution of MSDSs or the information on them, please forward them to the appropriate person. If your company is a distributor of this product, please forward this MSDS to your customer(s). If you wish to change your company's contact information, please provide the updated information below.

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**Change of Address Information**

Email Address: \_\_\_\_\_  
Fax Number: \_\_\_\_\_  
Telephone Number: \_\_\_\_\_  
Contact Name and Title: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Street Address 1: \_\_\_\_\_  
Street Address 2: \_\_\_\_\_  
City, State, Zip, and Country: \_\_\_\_\_

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**Please return this form to the address listed below:**

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Sunoco, Inc.  
Product Safety Resource Center  
Post Office Box 426  
Marcus Hook, PA 19061  
Fax: (866)-914-8171  
Phone: (888)-567-3066  
E-Mail: [sunocomsds@sunocoinc.com](mailto:sunocomsds@sunocoinc.com)

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MSDS Coordinator JAY GRESS, INC. R00358573400  
JAY GRESS, INC. R00358573400  
P.O. BOX 628  
NORRISTOWN, Pennsylvania 19404 USA

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## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name:** HEATING OIL HS

**Manufacturer Information:**

Sunoco, Inc. (R&M)  
1735 Market Street LL  
  
Philadelphia, Pennsylvania, 19103-7583

**Product Use:**

Fuel oil

**Emergency Phone Numbers:**

Chemtrec (800) 424-9300  
Sunoco Inc. (800) 964-8861

**Information:**

Product Safety Information (888) 567-3066

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount (Vol%)
NO. 2 FUEL OIL	68476-30-2	100 - 100
NAPHTHALENE	91-20-3	0 - 2
M-XYLENE	108-38-3	0.2 - 0.2
O-XYLENE	95-47-6	0.12 - 0.12
TOLUENE	108-88-3	0.098 - 0.098
P-XYLENE	106-42-3	0.064 - 0.064
ETHYLBENZENE	100-41-4	0.063 - 0.063
CUMENE	98-82-8	0.015 - 0.015
HEXANE	110-54-3	0.014 - 0.014
BENZENE	71-43-2	0 - 0.009

#### EXPOSURE GUIDELINES (SEE SECTION 15 FOR ADDITIONAL EXPOSURE LIMITS)

	CAS No.	Governing Body	Exposure Limits
Limit for the product	68476-30-2	ACGIH	TWA 100 mg/m3
BENZENE	71-43-2	ACGIH	STEL 2.5 ppm
BENZENE	71-43-2	OSHA	STEL 5 ppm
BENZENE	71-43-2	ACGIH	TWA 0.5 ppm
BENZENE	71-43-2	OSHA	TWA 1 ppm
CUMENE	98-82-8	ACGIH	TWA 50 ppm
CUMENE	98-82-8	OSHA	TWA 50 ppm
HEXANE	110-54-3	ACGIH	TWA 50 ppm
HEXANE	110-54-3	OSHA	TWA 500 ppm
M-XYLENE	108-38-3	ACGIH	STEL 150 ppm

#### **4. FIRST AID MEASURES**

- **INHALATION**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get immediate medical attention.

- **SKIN**

Wash with soap and water for 20 minutes. Get medical attention if irritation develops or persists. Wash clothing before reuse. Destroy contaminated shoes and other leather products. Injection injuries may not appear serious at first but within a few hours, without proper treatment, the area will become swollen, discolored and extremely painful. NOTE TO PHYSICIAN: Following injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss.

- **EYES**

Flush eye with water for 20 minutes. Get medical attention.

- **INGESTION**

Do not induce vomiting! Do not give liquids! Get medical attention immediately.

#### **5. FIRE FIGHTING MEASURES**

- **EXTINGUISHING MEDIA**

The following media may be used to extinguish a fire involving this material: Regular foam; Dry chemical; Carbon dioxide; Water may be ineffective.

- **FIRE FIGHTING INSTRUCTIONS**

Use water spray. Use water spray to cool fire exposed tanks and containers. Wear structural fire fighting gear. The use of fresh air equipment such as Self Contained Breathing Apparatus (SCBA) or Supplied Air Respirators should be worn for fire fighting if exposure or potential exposure to products of combustion is expected.

- **FLAMMABLE PROPERTIES**

Combustible liquid and vapor. STATIC ACCUMULATOR. This liquid may form an ignitable vapor-air mixture in closed tanks or containers.

	Typical	Minimum	Maximum	Test Result	Units	Method
Flash Point				125 Min PMCC	F	N/A
Autoignition Temperature	494				F	N/A
Lower Explosion Limit	0.3				%	N/A
Upper Explosion Limit	10				%	N/A

#### **6. ACCIDENTAL RELEASE MEASURES**

Prevent ignition, stop leak and ventilate the area. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Use appropriate personal protective equipment as stated in Section 8 of this MSDS.

Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

#### **7. HANDLING AND STORAGE**

- **HANDLING**

Use only in a well-ventilated area. STATIC ACCUMULATOR. This liquid may form an ignitable vapor-air mixture in closed tanks or containers. This liquid may accumulate static electricity even when transferred into properly grounded containers. Bonding and grounding may be insufficient to remove static electricity. Static electricity accumulation may be significantly increased by the presence of small quantities of water. Always bond receiving container to the fill pipe before and during loading, following NFPA-77 and/or API RP 2003 requirements. Automatic gauging devices and other floats in vessels or tanks which contain static accumulating liquids should be electrically bonded to the shell. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards associated with electrostatic charges. In addition to bonding and grounding, efforts to mitigate the hazards of an electrostatic discharge may include, but are not limited to, ventilation, inerting and/or reduction of transfer velocities. Always keep the nozzle in

Bulk Density		lb/gal	no data	
Liquid Conductivity		pS/m	0.1 est	
Melting Point		F	no data	
Molecular Weight		g/mole	no data	
Octanol/Water Coefficient		N/A	no data	
pH		N/A	no data	
Specific Gravity	0.87	N/A		
Solubility In Water		wt %	NIL	
Odor		N/A	Kerosene like	
Odor Threshold		ppm	no data	
Vapor Pressure	0.5	mmHg		@ 20 C
Viscosity (F)		SUS	no data	
Viscosity (C)	1.9	CsT		@ 40 C
% Volatile	100	wt %		

## **10. STABILITY AND REACTIVITY**

- **STABILITY**  
Stable
- **CONDITIONS TO AVOID**  
Avoid heat, sparks and open flame.
- **INCOMPATIBILITY**  
Strong oxidizers
- **HAZARDOUS DECOMPOSITION PRODUCTS**  
Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants.
- **HAZARDOUS POLYMERIZATION**  
Will not polymerize.

## **11. ECOLOGICAL INFORMATION**

No data available.

## **12. DISPOSAL CONSIDERATIONS**

Follow federal, state and local regulations. This material is a RCRA hazardous waste. Do not flush material to drain or storm sewer. Contract to authorized disposal service.

## **13. TRANSPORT INFORMATION**

<u>Governing Body</u>	<u>Mode</u>	<u>Proper Shipping Name</u>			
DOT	Ground	Fuel Oil			
IATA	Air	Gas Oil			

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<u>Governing Body</u>	<u>Mode</u>	<u>Hazard Class</u>	<u>UN/NA No.</u>	<u>Label</u>	
DOT	Ground	Combustible	NA1993		
		Liquid			
IATA	Air	Flammable	1202		
		Liquid			

## **14. REGULATORY INFORMATION**

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): Maximum Wt% Naphthalene- CAS  
R00000001800, HEATING OIL HS  
09/26/11

CAA (Clean Air Act) - VOCs in SOCM  
 CAA (Clean Air Act) - VOCs in SOCM  
 CAA (Clean Air Act) - VOCs in SOCM  
 CAA (Clean Air Act) - VOCs in SOCM  
 CAA (Clean Air Act) - VOCs in SOCM  
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 CAA - 1990 Hazardous Air Pollutants  
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 CAA - 1990 Hazardous Air Pollutants  
 California - Prop. 65 - Developmental Toxicity  
 California - Prop. 65 - Developmental Toxicity  
 California - Prop. 65 - Reproductive - Female  
 California - Prop. 65 - Reproductive - Male  
 California - Proposition 65 - Carcinogens List  
 California - Proposition 65 - Carcinogens List  
 California - Proposition 65 - Carcinogens List  
 Canada - CEPA - Sch. I - List of Toxic Substances  
 Canada - WHMIS - Ingredient Disclosure  
 Canada - WHMIS - Ingredient Disclosure  
 Canada - WHMIS - Ingredient Disclosure  
 Canada - WHMIS - Ingredient Disclosure  
 Canada - WHMIS - Ingredient Disclosure  
 Canada - WHMIS - Ingredient Disclosure  
 CERCLA/SARA - Haz Substances and their RQs  
 CERCLA/SARA - Haz Substances and their RQs  
 CERCLA/SARA - Haz Substances and their RQs  
 CERCLA/SARA - Haz Substances and their RQs  
 CERCLA/SARA - Haz Substances and their RQs  
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 CERCLA/SARA - Haz Substances and their RQs  
 CERCLA/SARA - Haz Substances and their RQs  
 CERCLA/SARA - Section 313 - Emission Reporting  
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 CWA (Clean Water Act) - Hazardous Substances  
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 CWA (Clean Water Act) - Priority Pollutants  
 CWA (Clean Water Act) - Priority Pollutants  
 CWA (Clean Water Act) - Priority Pollutants  
 CWA (Clean Water Act) - Priority Pollutants  
 CWA (Clean Water Act) - Toxic Pollutants  
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BENZENE	71-43-2
CUMENE	98-82-8
ETHYLBENZENE	100-41-4
O-XYLENE	95-47-6
P-XYLENE	106-42-3
TOLUENE	108-88-3
BENZENE	71-43-2
CUMENE	98-82-8
ETHYLBENZENE	100-41-4
HEXANE	110-54-3
M-XYLENE	108-38-3
NAPHTHALENE	91-20-3
O-XYLENE	95-47-6
P-XYLENE	106-42-3
TOLUENE	108-88-3
BENZENE	71-43-2
TOLUENE	108-88-3
TOLUENE	108-88-3
BENZENE	71-43-2
BENZENE	71-43-2
ETHYLBENZENE	100-41-4
NAPHTHALENE	91-20-3
BENZENE	71-43-2
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NAPHTHALENE	91-20-3
TOLUENE	108-88-3
BENZENE	71-43-2
ETHYLBENZENE	100-41-4
NAPHTHALENE	91-20-3
TOLUENE	108-88-3

Inventory - Korea - Existing and Evaluated  
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 Massachusetts - Right To Know List  
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 Massachusetts - Right To Know List  
 Massachusetts - Right To Know List  
 Massachusetts - Right To Know List  
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 New Jersey - Department of Health RTK List  
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 New Jersey - Department of Health RTK List  
 New Jersey - Department of Health RTK List  
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 New Jersey - Department of Health RTK List  
 New Jersey - Env Hazardous Substances List  
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 New Jersey - Env Hazardous Substances List  
 New Jersey - Special Hazardous Substances

NO. 2 FUEL OIL	68476-30-2
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O-XYLENE	95-47-6
P-XYLENE	106-42-3
TOLUENE	108-88-3
BENZENE	71-43-2

- Acute: **YES**
- Chronic: **YES**
- Fire: **YES**
- Reactivity: **NO**
- Sudden Release of Pressure: **NO**

## **15. OTHER INFORMATION**

Follow all MSDS/label precautions even after container is emptied because it may retain product residue.

**COMPONENT TOXICITY:** Overexposure to naphthalene, a minor component of this product, may cause skin, eye and respiratory tract irritation, anemia, loss of vision, nervous system effects and kidney and thymus damage. Also, exposure to naphthalene has produced "respiratory tract" tumors in laboratory animals. Dermal exposure to middle distillates have caused skin irritation and skin cancer in laboratory animals when repeatedly applied and left in place between applications. Studies to further evaluate the carcinogenic potential of middle distillates are currently underway. Cumene may be harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and cause damage. May cause respiratory irritation, fluid in the lungs and lung damage. May be irritating to the skin and eyes. May cause nervous system effects, including drowsiness, dizziness, coma and even death. Overexposure has caused kidney, nose, and liver damage in laboratory animals. Following inhalation exposure, an increased tumor incidence has been observed in experimental animals. The significance of this finding to human health is presently unknown.

## Material Safety Data Sheet

Quaker State Peak Performance Motor Oil SAE 5W-30

MSDS# 9351

Version 2.0

Effective Date 07/07/2008

According to OSHA Hazard Communication Standard, 29 CFR

1910.1200

### 1. MATERIAL AND COMPANY IDENTIFICATION

**Material Name** : Quaker State Peak Performance Motor Oil SAE 5W-30

**Manufacturer/Supplier** : SOPUS Products  
PO BOX 4427  
Houston, TX 77210-4427  
USA

**MSDS Request** : 877-276-7285

**Emergency Telephone Number**  
**Spill Information** : 877-242-7400  
**Health Information** : 877-504-9351

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.  
Highly refined mineral oils and additives.

### 3. HAZARDS IDENTIFICATION

Emergency Overview	
<b>Appearance and Odour</b>	: May be dyed. Liquid at room temperature. Slight hydrocarbon.
<b>Health Hazards</b>	: Not classified as dangerous for supply or conveyance.
<b>Safety Hazards</b>	: Not classified as flammable but will burn.
<b>Environmental Hazards</b>	: Not classified as dangerous for the environment.

**Health Hazards** : Not expected to be a health hazard when used under normal conditions.

**Health Hazards Inhalation** : Under normal conditions of use, this is not expected to be a primary route of exposure.

**Skin Contact** : Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

**Eye Contact** : May cause slight irritation to eyes.

**Ingestion** : Low toxicity if swallowed.

**Other Information** : Used oil may contain harmful impurities.

**Signs and Symptoms** : Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

**Aggravated Medical Condition** : Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.

**Environmental Hazards** : Not classified as dangerous for the environment.

**Additional Information** : Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous

## Material Safety Data Sheet

Quaker State Peak Performance Motor Oil SAE 5W-30

MSDS# 9351

Version 2.0

Effective Date 07/07/2008

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

chemical when evaluated according to the OSHA Hazard  
Communication Standard, 29 CFR 1910.1200.

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### 4. FIRST AID MEASURES

<b>General Information</b>	: Not expected to be a health hazard when used under normal conditions.
<b>Inhalation</b>	: No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
<b>Skin Contact</b>	: Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
<b>Eye Contact</b>	: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
<b>Ingestion</b>	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
<b>Advice to Physician</b>	: Treat symptomatically.

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### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

<b>Flash point</b>	: > 130 °C / 266 °F (Pensky-Martens Closed Cup)
<b>Upper / lower Flammability or Explosion limits</b>	: Typical 1 - 10 %(V)(based on mineral oil)
<b>Auto ignition temperature</b>	: > 320 °C / 608 °F
<b>Specific Hazards</b>	: Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.
<b>Suitable Extinguishing Media</b>	: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
<b>Unsuitable Extinguishing Media</b>	: Do not use water in a jet.
<b>Protective Equipment for Firefighters</b>	: Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

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### 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe all relevant local and international regulations.

<b>Protective measures</b>	: Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
<b>Clean Up Methods</b>	: Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay,

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**Additional Advice** : sand or other suitable material and dispose of properly.  
: Local authorities should be advised if significant spillages cannot be contained.

**7. HANDLING AND STORAGE**

**General Precautions** : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**Handling** : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

**Storage** : Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F

**Recommended Materials** : For containers or container linings, use mild steel or high density polyethylene.

**Unsuitable Materials** : PVC.

**Additional Information** : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Occupational Exposure Limits**

Material	Source	Type	ppm	mg/m3	Notation
Oil mist, mineral	ACGIH	TWA(Mist.)		5 mg/m3	
Oil mist, mineral	ACGIH	STEL(Mist.)		10 mg/m3	

**Exposure Controls** : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances.  
Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

**Personal Protective Equipment** : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

**Respiratory Protection** : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker

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- health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65 °C (149 °F)].
- Hand Protection** : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
- Eye Protection** : Wear safety glasses or full face shield if splashes are likely to occur.
- Protective Clothing** : Skin protection not ordinarily required beyond standard issue work clothes.
- Monitoring Methods** : Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.
- Environmental Exposure Controls** : Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : May be dyed. Liquid at room temperature.
- Odour : Slight hydrocarbon.
- pH : Data not available
- Initial Boiling Point and Boiling Range : > 280 °C / 536 °F estimated value(s)
- Freezing Point : Typical -34 °C / -29 °F
- Flash point : > 130 °C / 266 °F (Pensky-Martens Closed Cup)
- Upper / lower Flammability or Explosion limits : Typical 1 - 10 %(V) (based on mineral oil)
- Auto-ignition temperature : > 320 °C / 608 °F
- Vapour pressure : < 0.5 Pa at 20 °C / 68 °F (estimated value(s))
- Specific gravity : Typical 1.12
- Density : Typical 1,013 g/cm<sup>3</sup> at 15 °C / 59 °F
- Water solubility : Negligible.
- n-octanol/water partition coefficient (log Pow) : > 6 (based on information on similar products)
- Kinematic viscosity : Typical 63.8 mm<sup>2</sup>/s at 40 °C / 104 °F
- Vapour density (air=1) : > 1 (estimated value(s))

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Evaporation rate (nBuAc=1) : Data not available

**10. STABILITY AND REACTIVITY**

**Stability** : Stable.  
**Conditions to Avoid** : Extremes of temperature and direct sunlight.  
**Materials to Avoid** : Strong oxidising agents.  
**Hazardous Decomposition Products** : Hazardous decomposition products are not expected to form during normal storage.

**11. TOXICOLOGICAL INFORMATION**

**Basis for Assessment** : Information given is based on data on the components and the toxicology of similar products.  
**Acute Oral Toxicity** : Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat  
**Acute Dermal Toxicity** : Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit  
**Acute Inhalation Toxicity** : Not considered to be an inhalation hazard under normal conditions of use.  
**Skin Irritation** : Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.  
**Eye Irritation** : Expected to be slightly irritating.  
**Respiratory Irritation** : Inhalation of vapours or mists may cause irritation.  
**Sensitisation** : Not expected to be a skin sensitizer.  
**Repeated Dose Toxicity** : Not expected to be a hazard.  
**Mutagenicity** : Not considered a mutagenic hazard.  
**Carcinogenicity** : Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.  
**Reproductive and Developmental Toxicity** : Not expected to be a hazard.  
**Additional Information** : Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible. Continuous contact with used engine oils has caused skin cancer in animal tests.

**12. ECOLOGICAL INFORMATION**

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

**Acute Toxicity** : Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test

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extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

- Mobility** : Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
- Persistence/degradability** : Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
- Bioaccumulation** : Contains components with the potential to bioaccumulate.
- Other Adverse Effects** : Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

### 13. DISPOSAL CONSIDERATIONS

- Material Disposal** : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
- Container Disposal** : Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
- Local Legislation** : Disposal should be in accordance with applicable regional, national, and local laws and regulations.

### 14. TRANSPORT INFORMATION

#### US Department of Transportation Classification (49CFR)

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

#### IMDG

This material is not classified as dangerous under IMDG regulations.

#### IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

### 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

#### Federal Regulatory Status

#### Notification Status

EINECS All components listed.

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TSCA

All components listed.

DSL

All components listed.

### SARA Hazard Categories (311/312)

No SARA 311/312 Hazards.

### State Regulatory Status

#### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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## 16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity) : 0, 1, 0

MSDS Version Number : 2.0

MSDS Effective Date : 07/07/2008

MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the previous version.

MSDS Regulation : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

MSDS Distribution : The information in this document should be made available to all who may handle the product.

Disclaimer : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.